IN THE CLAIMS

Please amend the claims to be in the form as follows:

Claim 1 (currently amended): A method of <u>identifying a target within</u> ~~comparing two~~ datasets comprising:

determining a first histogram <u>representing the target</u> corresponding to a distribution of values in a first dataset,

determining a plurality of palette values corresponding to a specified number of different values in the first dataset,

determining a first histogram vector corresponding to the first histogram,

the first histogram vector comprising elements that each correspond to a palette value of the plurality of palette values,

identifying values in a second dataset corresponding to the plurality of palette values,

determining a second histogram vector corresponding to the values in the second dataset, and

comparing the first histogram vector to the second histogram vector <u>to determine if the second histogram is representative of the target</u>.

Claim 2 (original): The method of Claim 1, wherein:

determining the second histogram vector includes a recursive determination of the second histogram vector based on a prior determined histogram vector and elements that are contained in the prior determined histogram vector but not the second histogram vector, and elements that are contained in the second histogram vector but not the prior determined histogram vector.

Claim 3 (original): The method of Claim 2, wherein:

the recursive determination includes:

determining one or more row vectors, based on corresponding one or more prior row vectors, and

determining the second histogram vector, based on the prior determined

histogram vector and the one or more row vectors.

Claim 4 (original): The method of Claim 1, wherein the first dataset corresponds to first pixel values of a target image and the second dataset corresponds to second pixel values of a region of a source image.

Claim 5 (original): The method of Claim 4, wherein the first pixel values and the second pixel values correspond to at least one of a hue component, a saturation component, and a brightness component of each pixel.

Claim 6 (original): The method of Claim 1, wherein the plurality of palette values corresponds to the values in the first dataset having a higher frequency count in the first histogram than other values in the first dataset.

Claim 7 (original): The method of Claim 1, wherein the specified number of different values is substantially less than a maximum number of possible different values in the first dataset.

Claim 8 (original): The method of Claim 1, further including:
        mapping values in the first and second datasets to a plurality of histogram classes, and wherein:
        each palette value corresponds to a histogram class of the plurality of histogram classes.

Claim 9 (original): The method of Claim 1, wherein:
        identifying values in the second dataset includes:
        creating a palette dataset corresponding to the second dataset that identifies each occurrence of a palette value of the plurality of palette values, and
        determining the second histogram vector includes:
        providing a count of a number of occurrences of each palette value in the palette dataset.

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Claim 10 (original): The method of Claim 1, wherein:

the second dataset is a subset of a larger dataset that includes a third dataset that overlaps the second dataset,

the third dataset having a third histogram vector, and

determining the second histogram vector includes:

equating the second histogram vector to the third histogram vector;

decrementing the second histogram vector for palette values that are included in the third dataset but not the second dataset, and

incrementing the second histogram vector for palette values that are included in the second dataset but not the third dataset.

Claim 11 (original): The method of Claim 10, wherein:

a first intermediate vector is determined for one or more segments of the third dataset that are not included in the second dataset,

a second intermediate vector is determined for one or more segments of the second dataset that are not included in the third dataset, and

decrementing the second histogram vector includes subtracting the first intermediate vector, and

incrementing the second histogram vector includes adding the second intermediate vector.

Claim 12 (original): The method of Claim 1, further including:

identifying values in each of a plurality of datasets corresponding to the plurality of palette values,

determining a plurality of other histogram vectors corresponding to the values in the plurality of datasets,

comparing the first histogram vector to each of the plurality of histogram vectors, and

identifying a select one of the plurality of datasets that is most similar to the first dataset, based on the comparing of the first histogram vector to the second histogram

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vector and each of the plurality of histogram vectors.

Claim 13 (currently amended): A computer program that is configured to effect the following operations to identify a target within datasets when executed by a processing system:

create a first histogram corresponding to a distribution of values in a first dataset, wherein the first histogram is representative of the target,

determine a plurality of palette values corresponding to a specified number of different values in the first dataset,

determine a first histogram vector corresponding to the first histogram,

the first histogram vector comprising elements that each correspond to a palette value of the plurality of palette values,

identify values in a second dataset corresponding to the plurality of palette values,

determine a second histogram vector corresponding to the values in the second dataset, and

compare the first histrogram vector to the second histogram vector to determine if the second histogram sufficiently matches the target.

Claim 14 (original): The computer program of Claim 13, wherein the computer program is further configured to identify a select dataset of a plurality of datasets, including the second dataset, based on a similarity of the target to each of the plurality of datasets, by effecting the following operations:

identify values in each of the plurality of datasets corresponding to the plurality of palette values;

determine a plurality of histogram vectors, each histogram vector corresponding to the values in each of the plurality of datasets,

compare the first histogram vector to each histogram vector to determine a comparative measure associated with each histogram vector, and

identify the select database based on the comparative measure associated with each histogram vector.

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Claim 15 (original): The computer program of Claim 14, wherein:

the first dataset corresponds to first pixel values of a target image and each of the plurality of datasets corresponds to pixel values of each dataset.

Claim 16 (original): The computer program of Claim 15, wherein:

the first pixel values and the second pixel values correspond to at least one of a hue component, a saturation component, and brightness component of each pixel.

Claim 17 (currently amended): An image processing system comprising:

a processor that is configured to:

create a first histogram representative of a target corresponding to a distribution of values in a first dataset,

determine a plurality of palette values corresponding to a specified number of

different values in the first dataset,

determine a first histogram vector corresponding to the first histogram,

the first histogram vector comprising elements that each correspond to a palette

value of the plurality of palette values,

identify values in a second dataset corresponding to the plurality of palette values,

determine a second histogram vector corresponding to the values in the second dataset, and

compare the first histogram vector to the second histogram vector to identify matches to the target; and

a memory, operably coupled to the processor, that is configured to store a representation of the values in the second dataset corresponding to the plurality of palette values, to facilitate determining the second histogram vector.

Claim 18 (original): The image processing system of Claim 17, further including:

an application-specific device that is configured to determine the second histogram vector based on the representation of the values that is stored in the memory.

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Claim 19 (original): The image processing system of Claim 17, wherein:

the first dataset corresponds to first pixel values of a target image and

each of the plurality of datasets corresponds to pixel values of each dataset.

Claim 20 (original): The image processing system of Claim 18, wherein:

the first pixel values and the second pixel values correspond to at least one of a

hue component, a saturation component, and a brightness component of each pixel.

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